



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Butler Manufacturing
A Division of BlueScope Buildings North America, Inc.
13500 Botts Road
Grandview, Missouri 64030

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "MR-24" 0.032" (min.) Galvalume Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on June 10, 2014, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label w/the manufacturer's name or logo, Jackson, TN, and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 14-0520.16 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4 & E-5 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
10/16/2014

NOA No. 14-0922.03
Expiration Date: 12/09/2019
Approval Date: 10/16/2014
Page 1

Butler Manufacturing
A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 99-0816.08

A. DRAWINGS

1. *Drawing No. B, sheets 1 through 6 of 6, prepared by Suresh C. Satsangi, P.E., dated November 4, 1999, signed and sealed by Suresh C. Satsangi, P.E.*

B. TESTS

1. *Test report on Uplift Resistance per UL 580 Class 90 on MR-24 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0063-0311-99, dated 03/22-24/99, signed and sealed by Vinu J. Abraham, P.E.*
2. *Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G26-96, prepared by Celotex, Report No. 520223, dated 08/02/99, signed and sealed by R. C. Miller, P.E.*
3. *Test report on Salt Spray Testing of Coating 1000 hours per ASTM B117-95, prepared by Celotex, Report No. 520223, dated 08/02/99, signed and sealed by R. C. Miller, P.E.*
4. *Susceptibility to leakage test in accordance with Miami-Dade County Protocol PA 114 Appendix G, prepared by Celotex, Report No. 520223-1, dated 07/01/99, signed and sealed by R. C. Miller, P.E.*

C. CALCULATIONS

1. *Calculations titled "MR-24 Wind Load Design for Roof", dated 07/28/99, pages 1 through 10 of 10, prepared by Suresh C. Satsangi, P.E., signed and sealed by Suresh C. Satsangi, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by U. S. Steel Group, dated 01/21/99, with chemical composition and mechanical properties of galvalume steel.*
2. *Tensile Test on specimen #3 of Test No. 0063-0311-99, Report No. 9CM-777A, prepared by QC Metallurgical, Inc., dated 04/23/99, signed and sealed by Frank Grate, P.E.*

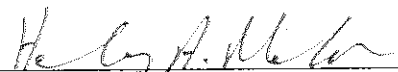
2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-1211.09

A. DRAWINGS

1. *Drawing No. B, titled "Mr-24 Roof Panel ", sheets 1 through 6 of 6, prepared by Butler Manufacturing Company, dated January 06, 2003, sheets 1 & 2 of 6, and dated November 4, 1999, sheets 3, 4, 5, & 6 of 6, all signed and sealed by John Ernest Lamb, P.E. on January 16, 2003.*

B. TESTS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0922.03
Expiration Date: 12/09/2019
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Butler Manufacturing
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0803.01

A. DRAWINGS

1. *Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing Company, dated 07/12/2004, sheets 1 & 2 of 6, & 11/04/1999, sheets 3, 4, 5, & 6 of 6, all signed & sealed by John Ernest Lamb, P.E. on 07/25/2004*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculations titled "MR-24 Roof Panel", dated 07/08/04, 5 pages, prepared by Myron Kottwitz, P.E., signed and sealed by Myron Kottwitz.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0208.04

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

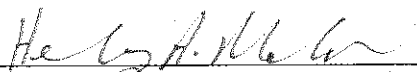
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Henry A. Makar, P.E., M.S.
Product Control Unit Supervisor

NOA No. 14-0922.03

Expiration Date: 12/09/2019

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Butler Manufacturing
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-1112.11

A. DRAWINGS

1. *None.*

B. TESTS

2. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0811.17

A. DRAWINGS

1. *Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing Company, signed & sealed by Russell Benton, P.E., on September 15, 2009.*

B. TESTS

1. *Test report on Uplift Resistance per ASTM 1592 on MR-24 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0063-0904-08, dated 12/19/08, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0922.03
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Butler Manufacturing
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #10-0901.20

A. DRAWINGS

1. *Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on August 20, 2010.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building and Neighborhood Compliance Department (BNC).*

E. MATERIAL CERTIFICATIONS

1. *None.*

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0520.16

A. DRAWINGS

1. *Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on June 10, 2014.*

B. TESTS

1. *None.*

C. CALCULATIONS

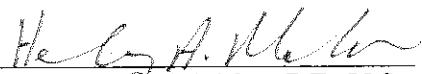
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0922.03
Expiration Date: 12/09/2019
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Butler Manufacturing
A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

9. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

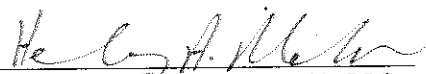
1. *None.*

D. QUALITY ASSURANCE

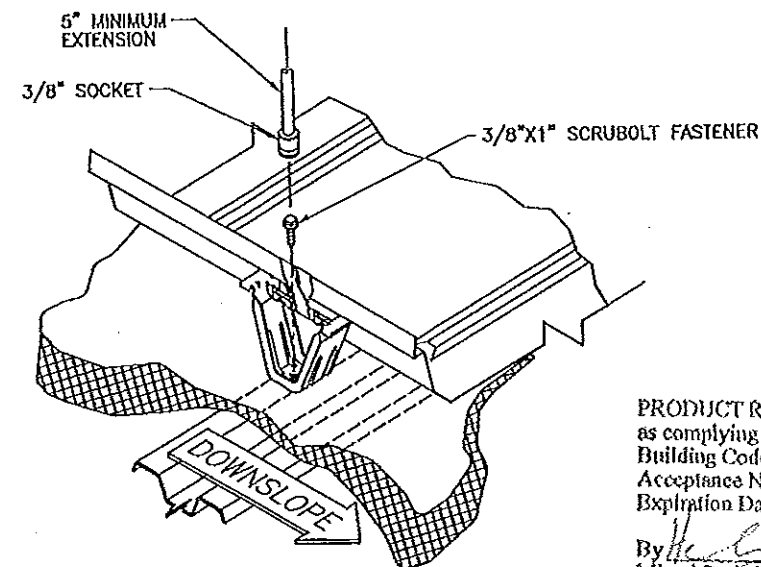
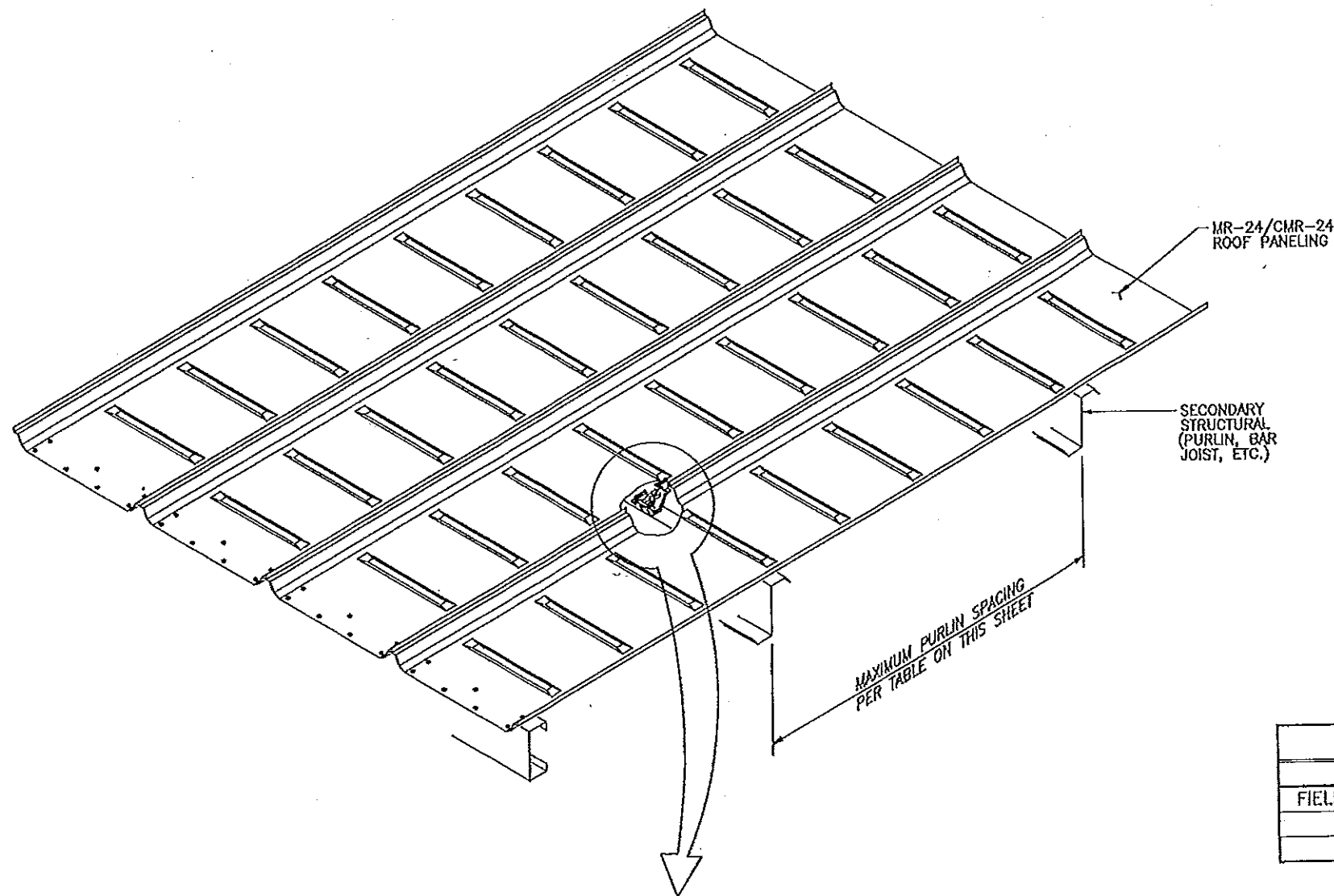
1. *By Miami-Dade County Department of Regulatory and Economic Resources (RER).*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 14-0922.03
Expiration Date: 12/09/2019
Approval Date: 10/16/2014



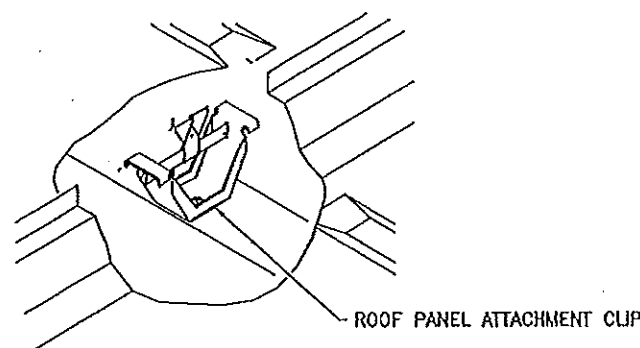
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0520.16
Expiration Date 12/09/2014
By *H. A. Nelson*
Miami Dade Product Control

NOTE:

WITH THE EXCEPTION OF THE PURLIN SPACING AND THE CLIP ATTACHMENT FASTENER SHOWN ON THIS DRAWING REFER TO THE STANDARD MR-24 DRAWINGS FOR ALL OTHER DETAILS AND INSTALLATION INSTRUCTIONS.

PRODUCT RENEWED
as complying with the Florida
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Miami Dade Product Control

PURLIN SPACING		
ROOF ZONE	MAXIMUM PURLIN SPACING	MAX. UPLIFT PRESSURE
FIELD (INTERIOR)	4'-0"	45.0
EDGE	2'-0"	77.5
CORNER	1'-3"	115.8



GENERAL NOTES:

1. THIS STRUCTURAL ROOF PANEL SHALL BE DESIGNED IN ACCORDANCE WITH THE 2010 EDITION OF THE FLORIDA BUILDING CODE.
2. ALL BUTLER MR-24 ROOF PANELS SHALL BE 22 GAUGE (0.032" MIN.) GALVALUME STEEL SHEET CONFORMING TO ASTM A 792, COATING DESIGNATION AZ55, WITH A MINIMUM FY=50 KSI.
3. ALL PANEL CLIPS SHALL HAVE A 16 GAUGE (0.062") BASE CONFORMING TO ASTM A 853 GRADE 42, COATING DESIGNATION G60 SHALL HAVE OVERALL DIMENSIONS OF 4-3/8"(LONG) X 1-1/2"(WIDE) X 2-1/4"(TALL) OR 3-5/16"(TALL), AND SHALL HAVE A 24 GAUGE STAINLESS STEEL TAB, 1-1/4" WIDE.
4. ALL SCREWS SHALL BE 3/8" DIA. X 1" HEX HEAD, SELF TAPPING SCRUBOLT, WITH EPDM BACKED STEEL WASHER, PART NUMBER 097196 BY BUTLER MANUFACTURING COMPANY.
5. ALL PANEL CLIPS SHALL BE ATTACHED TO PURLINS WITH A MINIMUM THICKNESS OF 0.067".
6. VALLEY ASSEMBLY IS NOT ALLOWED IN THIS ROOF PANEL APPROVAL.
7. EACH PANEL TO PANEL CONNECTION IS TO BE MADE WITH A POSITIVE, FIELD FORMED STANDING DOUBLE-LOCK SEAM.
8. THIS 22 GAUGE (0.032" MIN.) BUTLER MR-24 ROOF PANEL SHALL BE USED FOR ROOF CONSTRUCTION. EVERY PROJECT SHALL BE CONSTRUCTED USING THE SAME DETAILS SHOWN ON THESE APPROVED DRAWINGS INCLUDING:
 - DETAILS OF ALL PANEL MATERIAL CHARACTERISTICS AND SECTIONS WITH DIMENSIONS AND THICKNESS.
 - ASSEMBLY DETAILS INCLUDING ALL CONNECTIONS AND FASTENERS DIAGRAM WITH SIZE AND LOCATION.
 - PANEL'S MAXIMUM SPAN AND PRESSURE FOR THE ROOF'S FIELD, PERIMETER, AND CORNER ZONES BASED ON THE PANEL'S ALLOWABLES SHOWN IN THE TABLE ABOVE.

Russell L. Benton
6/10/14
Russell L. Benton, PE#51155



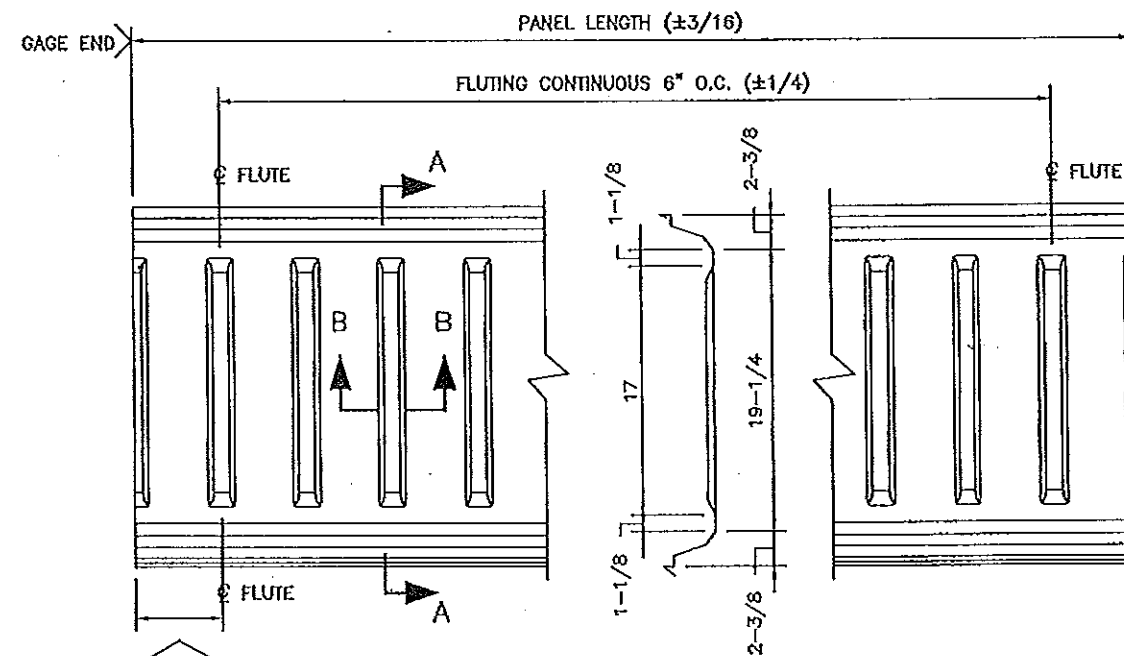
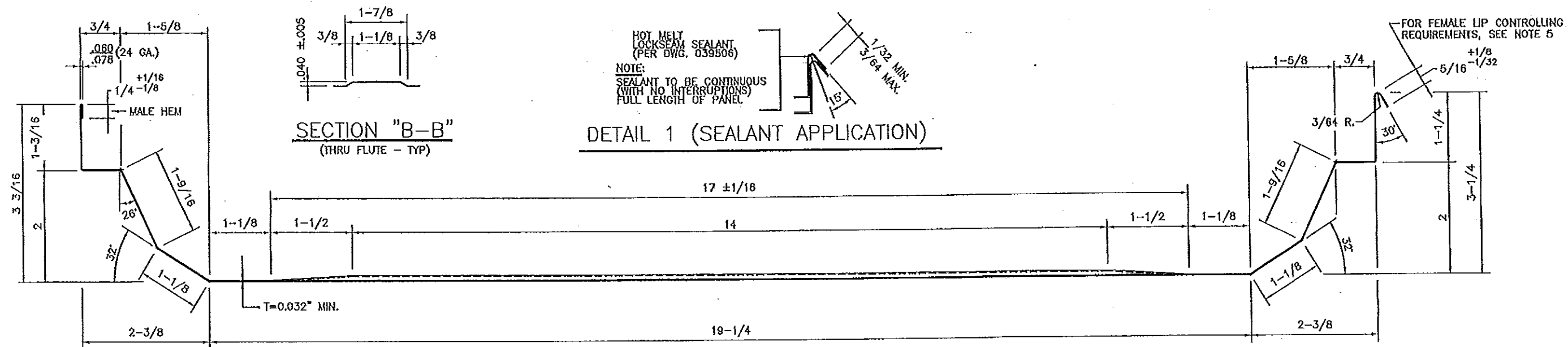
MR-24 PANEL INSTALLATION
DADE COUNTY FLORIDA

DRAWN BY	CHECKED BY	GROUP NUMBER
JRS	MJH	02-030-06
FIRST RELEASE DATE	REVISION DATE	
01/21/10	08/09/14	B P-081383 02

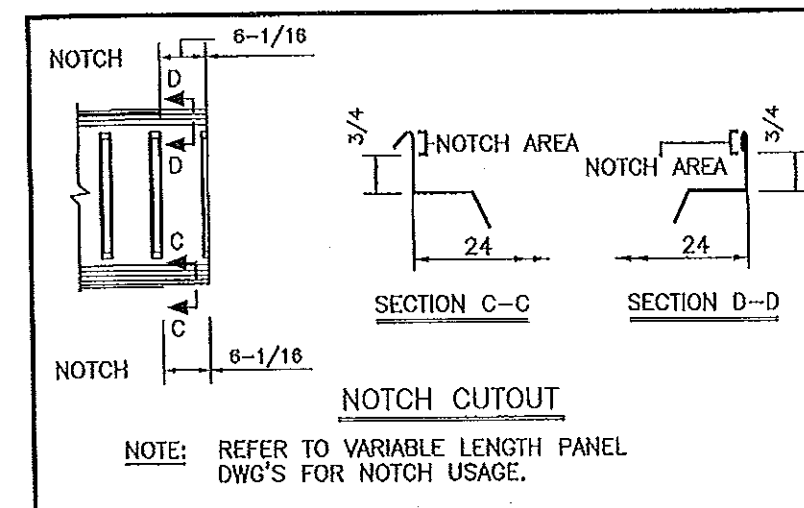
SHEET 1 OF 6

REVISION NUMBER 1
DATE 07/01/10
DWG CHG BSN RLB
REVISE TO BSN TITLE BLOCK AND NUMBER TO P-081383, ADD BUTLER LOGO

REVISION NUMBER 2
DATE 06/09/14
DWG CHG MJH RLB
REVISED REFERENCE IN NOTE 1 FOR FLORIDA BUILDING CODE TO 2010, WAS 2007.



PLAN VIEW (BASIC PANEL)



- NOTES:
1. DIMENSIONAL TOLERANCES = $\pm 1/32$ (EXCEPT AS NOTED)
 2. ALL INSIDE FORMING RADII = $1/32$ (EXCEPT AS NOTED)
 3. ANGLE TOLERANCES $\pm 2^\circ$ (EXCEPT AS NOTED)
(ANGLES TO BE MEASURED FROM A FLAT PLANE WITH PANEL HELD TO THAT PLANE WITHOUT DISTORTION OF FABRICATED CROSS-SECTIONAL SHAPE AND WITH OUTSIDE CORRUGATIONS FREE).
 4. CROSS SECTIONAL TOLERANCES SHOWN TO BE HELD THROUGHOUT LENGTH OF PANEL EXCEPT WHERE PANEL IS DISTORTED BY SHEARING OR BENDING. (MAXIMUM ALLOWABLE LATERAL OR VERTICAL DISTORTION BY THE SHEARING OPERATIONS IS $\pm 1/32$ FROM "AS ROLLED SHAPE")
 5. THE LENGTH OF FEMALE LIP MUST BE AT LEAST $1/16$ " LONGER THAN THE MALE HEM.

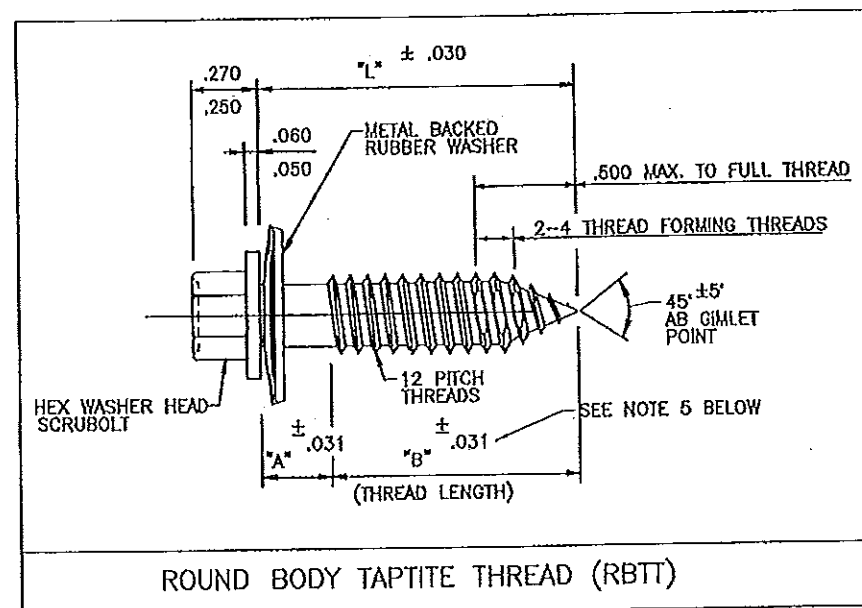
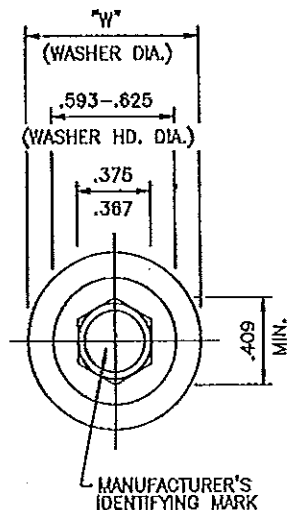
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 14-0922-03
Expiration Date 12/09/2019
By *[Signature]*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
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Expiration Date 12/09/2019
By *[Signature]*
Miami Dade Product Control

MAT'L GRADES	MATERIAL DESCRIPTION	B. M. C.
GA. OF MAT'L		SPEC. NO.
22 (0.032" MIN.)	ALUMINUM ZINC ALLOY (GALVALUME)	10179
GR. 50		

[Signature]
Russell L. Benton, PE#51155

BUTLER		MR-24 ROOF PANEL		DADE COUNTY FLORIDA	
DRAWN BY	CHECKED BY	GROUP NUMBER: 02-030-06			
JRS	MJH				
FIRST RELEASE DATE	REVISION DATE				
01/21/10	07/01/10				
1540 GENESSEE ST. KANSAS CITY, MO. 64102		B		P-081384 01	



ASSEMBLY		SCRUBOLT WITHOUT WASHER							METAL BACKED RUBBER WASHER		
PART NO.	WEIGHT	SCRUBOLT PART NO.	MATERIAL	NOMINAL SIZE (SEE NOTE 6)	"L"	"A"	"B"		WASHER PART NO.	"W"	WASHER DWG. NO.
095984	0.031	095304	SS NOTE 1	11/32 X 7/8	.875	SEE NOTE 4	.875		097436	.729	095016
096932	0.038	096930	ST. NOTE 2	3/8 X 1-1/4	1.25	SEE NOTE 4	1.250		095154	.729	095016
097104	0.039	097103	SS NOTE 1	11/32 X 1-1/4	1.25	SEE NOTE 4	1.250		097436	.729	095016
097196	0.039	097195	ST. NOTE 2	3/8 X 1	1.00	SEE NOTE 4	1.00		095154	.729	095016
097222	0.055	097221	ST. NOTE 2	3/8 X 2	2.00	.187	1.813		095154	.729	095016
097264	0.074	096931	ST. NOTE 2	3/8 X 2-3/4	2.75	.750	2.00		095154	.729	095016
097270	0.080	097268	ST. NOTE 2	3/8 X 2-1/4	2.25	.250	2.00		095154	.729	095016
097271	0.086	097269	ST. NOTE 2	3/8 X 3-1/2	3.50	.500	3.00		095154	.729	095016
097292	0.125	097291	ST. NOTE 2	3/8 X 5	5.00	2.000	3.00		095154	.729	095016
097298	0.145	097297	ST. NOTE 2	3/8 X 6	6.00	3.000	3.00		095154	.729	095016

SEE NOTE 5

MATERIALS:

- 410 STAINLESS W/CLEAR CHROMATE, BMC EMS 10,073
- CARBON STEEL W/YELLOW CHROMATE -- BMC EMS 10,073.
- WASHER SPEC. AND DIMENSIONS -- SEE DWG 095016

SCRUBOLT WITH FULL THREADS:

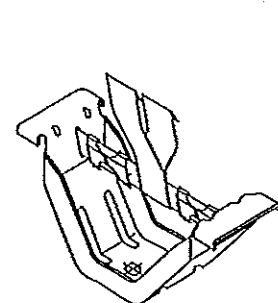
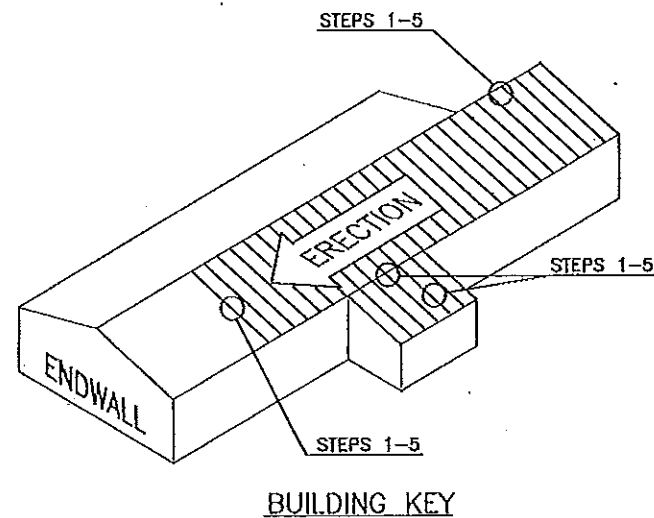
- FULL THREAD TO WITHIN 1 THREAD OF HEAD & SHANK JUNCTURE.
- 3" THREAD LENGTH
HAS A ± .050 TOLERANCE
- DIAMETER OF 3/8" SCRUBOLT IS .367±.003
DIAMETER OF 11/32" SCRUBOLT IS .345±.003

PRODUCT RENEWED
as complying with the Florida
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Expiration Date 12/09/2019
By *H. A. Miller*
Miami Dade Product Control

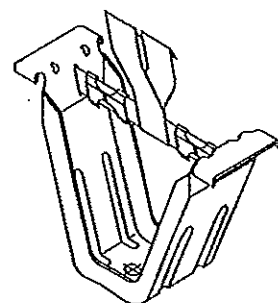
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0520-16
Expiration Date 12/09/2014
By *H. A. Miller*
Miami Dade Product Control

Russell L Benton
6/10/14
Russell L Benton, PE#51155

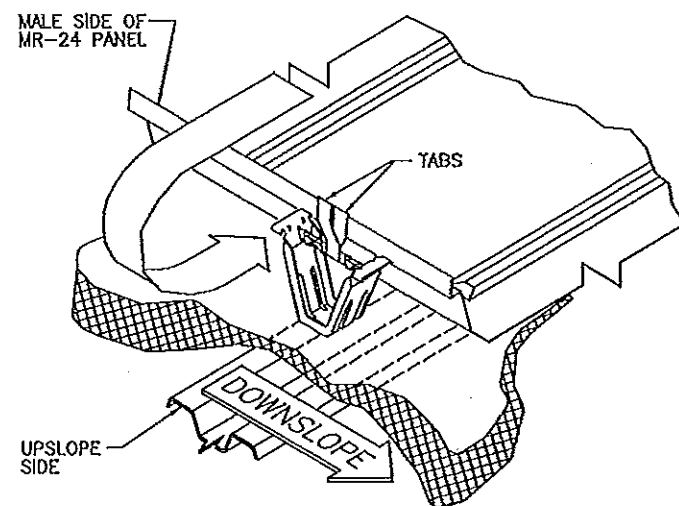
BUTLER Butler Manufacturing a Division of BlueScope Building North America, Inc. 1540 GENESSEE ST. KANSAS CITY, MO. 64102		MR-24 HEX HEAD SCRUBOLTS DADE COUNTY FLORIDA		GROUP NUMBER: 02-030-01	
DRAWN BY JRS	CHECKED BY MJH	FIRST RELEASE DATE 01/21/10		REVISION DATE 07/01/10	
B		P-081385		01	



PANEL CLIP (560440)
(WITHOUT SPACER BLOCK)

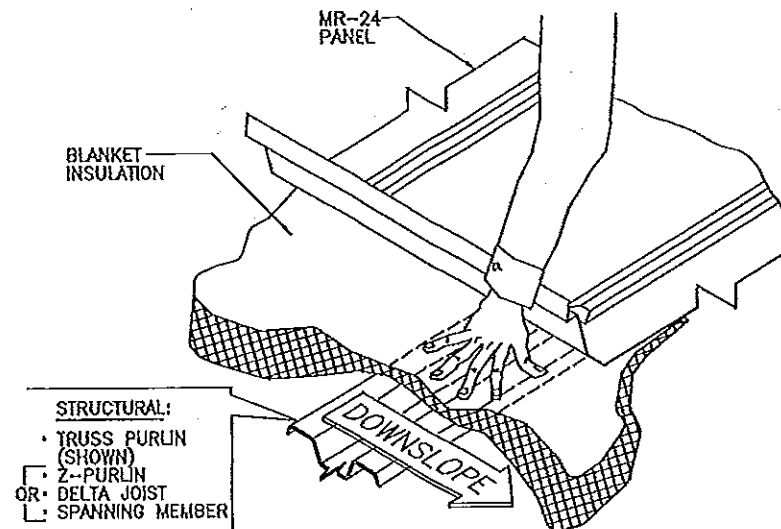


PANEL CLIP (560441)
(WITH SPACER BLOCK)



STEP 3

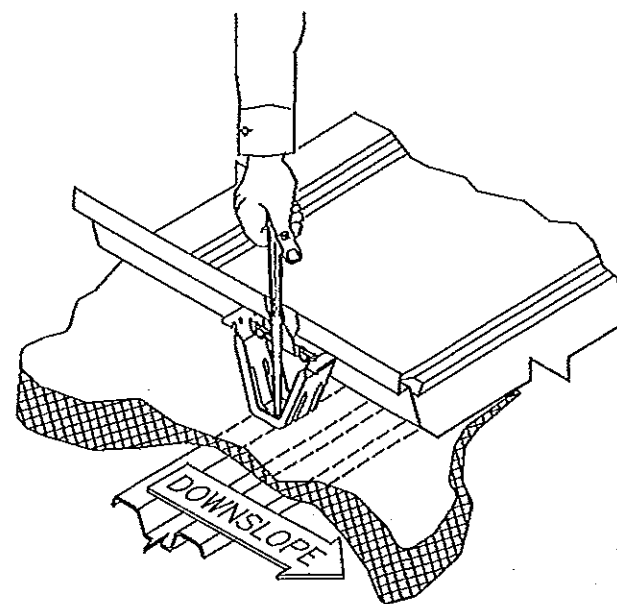
HOOK PANEL CLIP TABS
OVER PANEL AND ROTATE
CLIP INTO POSITION



STEP 1

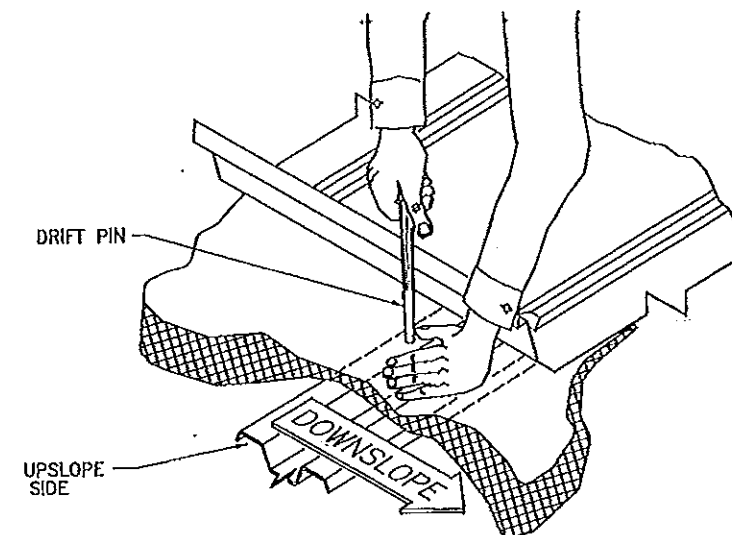
LOCATE STRUCTURAL

FROM THE ADJACENT MR-24 PANEL,
LOCATE THE STRUCTURAL UNDER
THE BLANKET INSULATION.



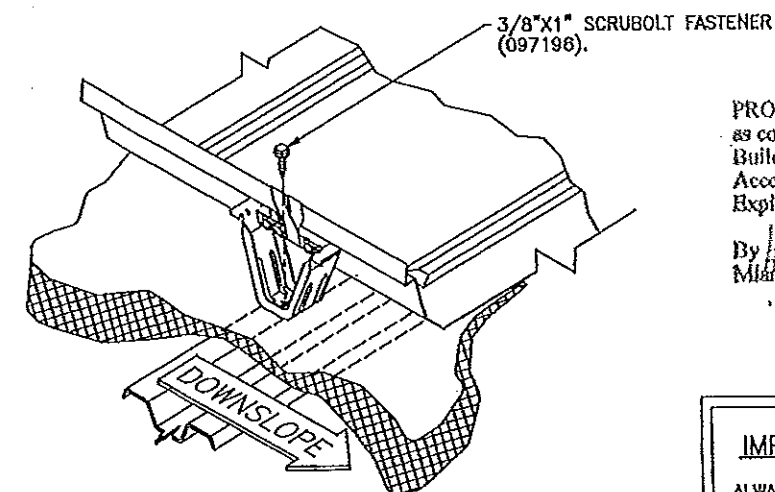
STEP 4

TEMPORARILY SECURE THE
PANEL CLIP WITH A
DRIFT PIN



STEP 2

LOCATE HOLE IN STRUCTURAL
WITH DRIFT PIN



STEP 5

INSTALL SCRUB BOLT FASTENER

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0922.03
Expiration Date 12/09/2019
By *H. L. Benton*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0520.16
Expiration Date 12/09/2014
By *H. L. Benton*
Miami Dade Product Control

IMPORTANT NOTE

ALWAYS MAKE SURE TABS
ARE CENTERED IN THE
MR-24 CLIP AFTER THE
CLIP IS INSTALLED.

REVISION NUMBER 1
REVISED TO BINA TITLE BLOCK AND
NUMBER TO P-081386.
DATE 07/01/10
DWY GHO
ESN RLB

Russell L. Benton
6/10/14
Russell L. Benton, PE#51155

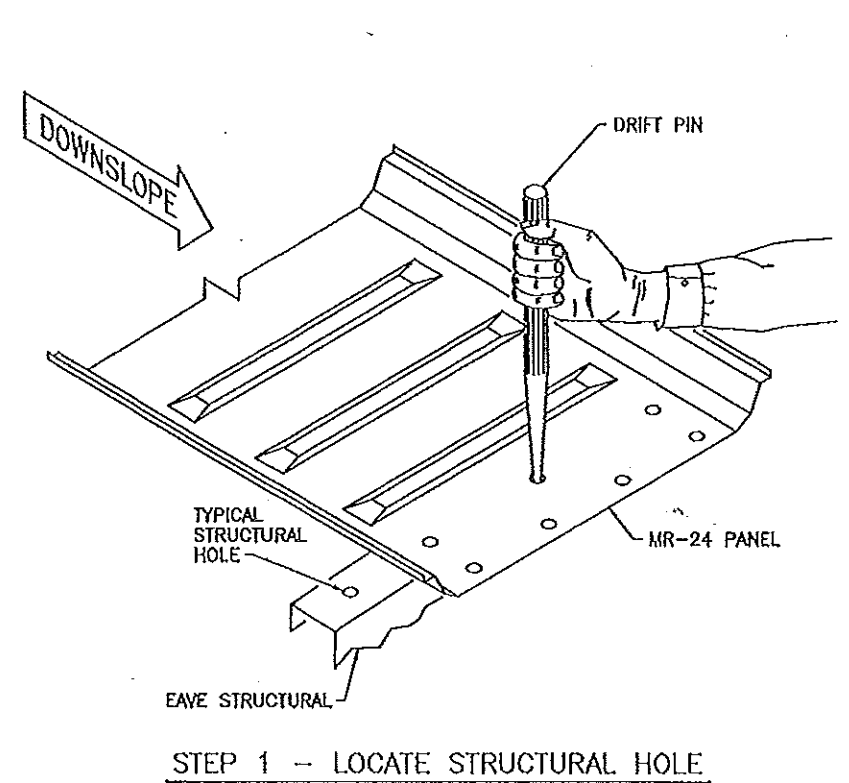
BUTLER
Butler Manufacturing
a division of Chicago Bridge & Iron North America, Inc.
1540 GENESSEE ST.
KANSAS CITY, MO. 64102

MR-24 PANEL CLIP INSTALLATION
DADE COUNTY FLORIDA

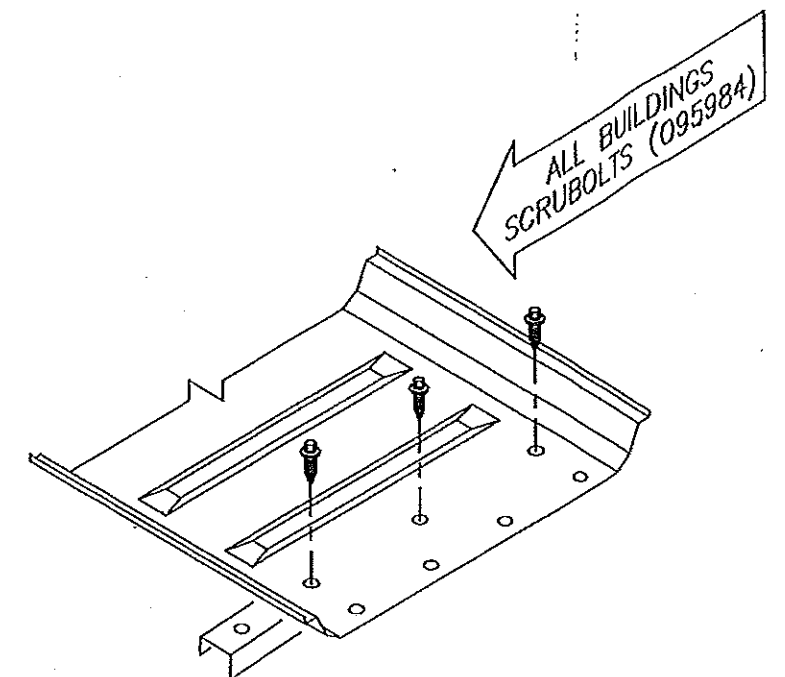
DRAWN BY	CHECKED BY
JRS	MJH
FIRST RELEASE DATE	REVISION DATE
01/21/10	07/01/10

GROUP NUMBER: 02-030-08	
B	P-081386 01

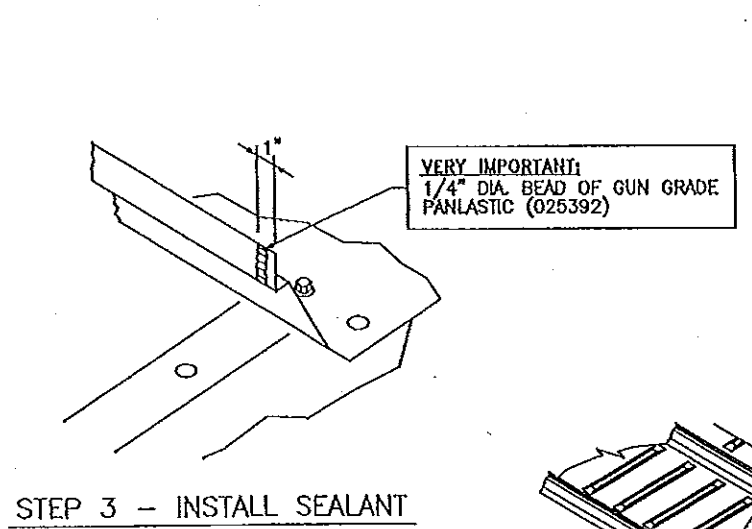
REVISION NUMBER 1		REVISION NUMBER 2	
DATE	07/01/10	DATE	03/11/14
BY	BSN, RLB	BY	BSN, RLB
REVISED TO BSN TITLE BLOCK AND NUMBER TO P-081387, ADD BUTLER LOGO.		REVISED TO SHOW NEW STARTING PLATFORM AND SAFETY PROCEDURE FOR ENGAGING ROOF RUNNER. ADD FLUTES TO MR-24 PANEL.	



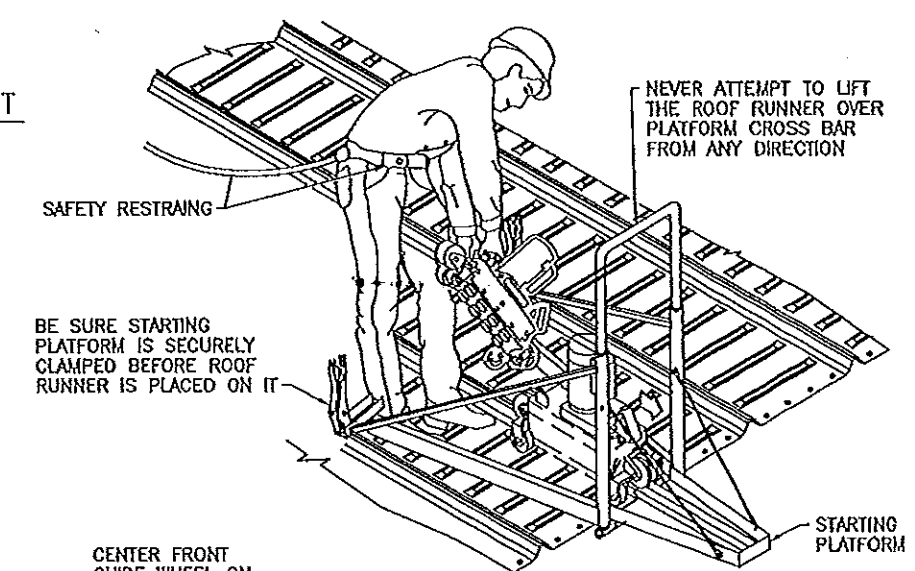
STEP 1 - LOCATE STRUCTURAL HOLE



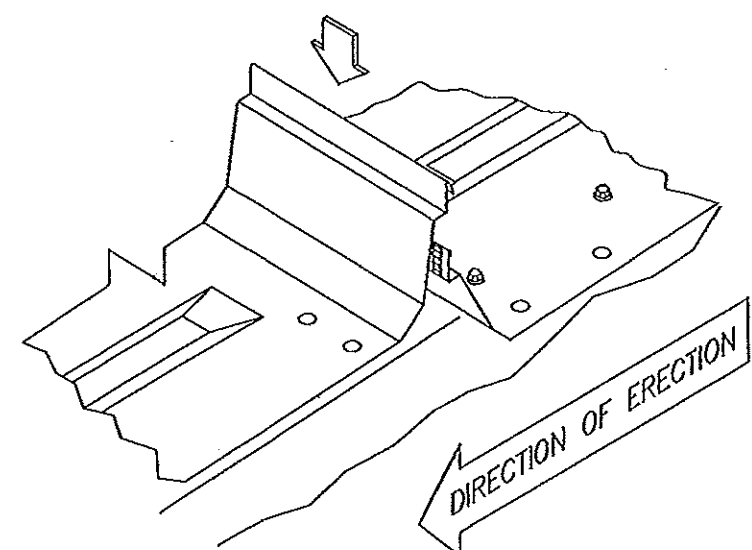
STEP 2 - INSTALL FASTENERS



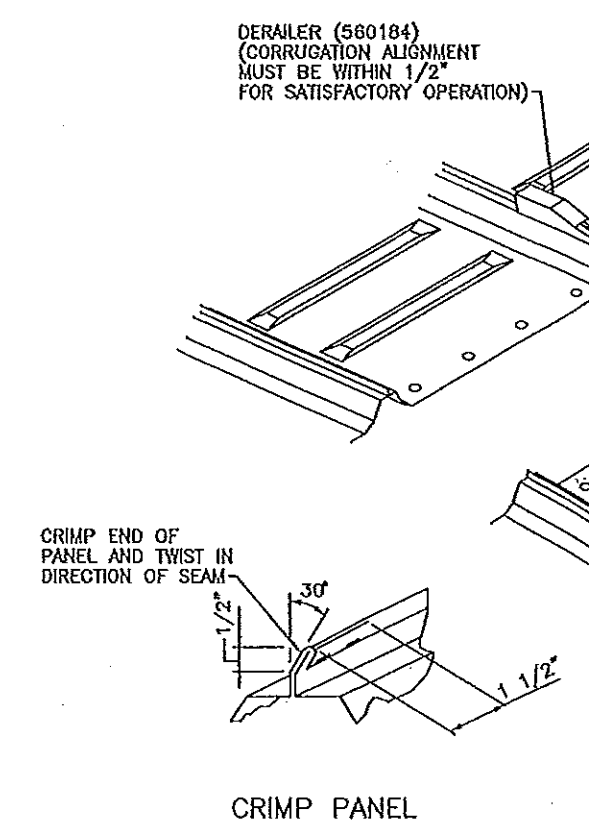
STEP 3 - INSTALL SEALANT



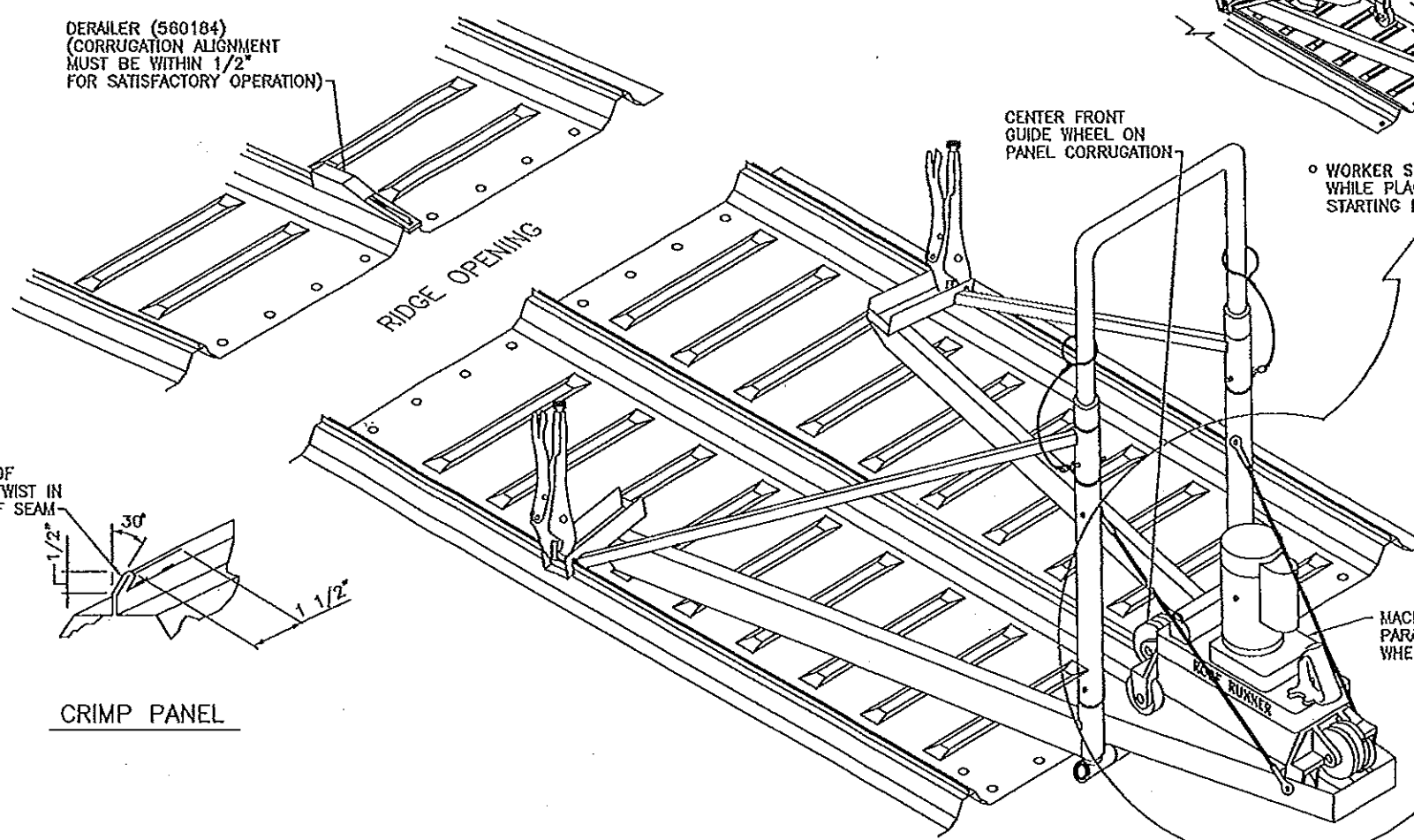
WORKER SHOULD WEAR SAFETY RESTRAINT WHILE PLACING ROOF RUNNER ON STARTING PLATFORM AND WHILE REMOVING



STEP 4 - NEXT PANEL



CRIMP PANEL



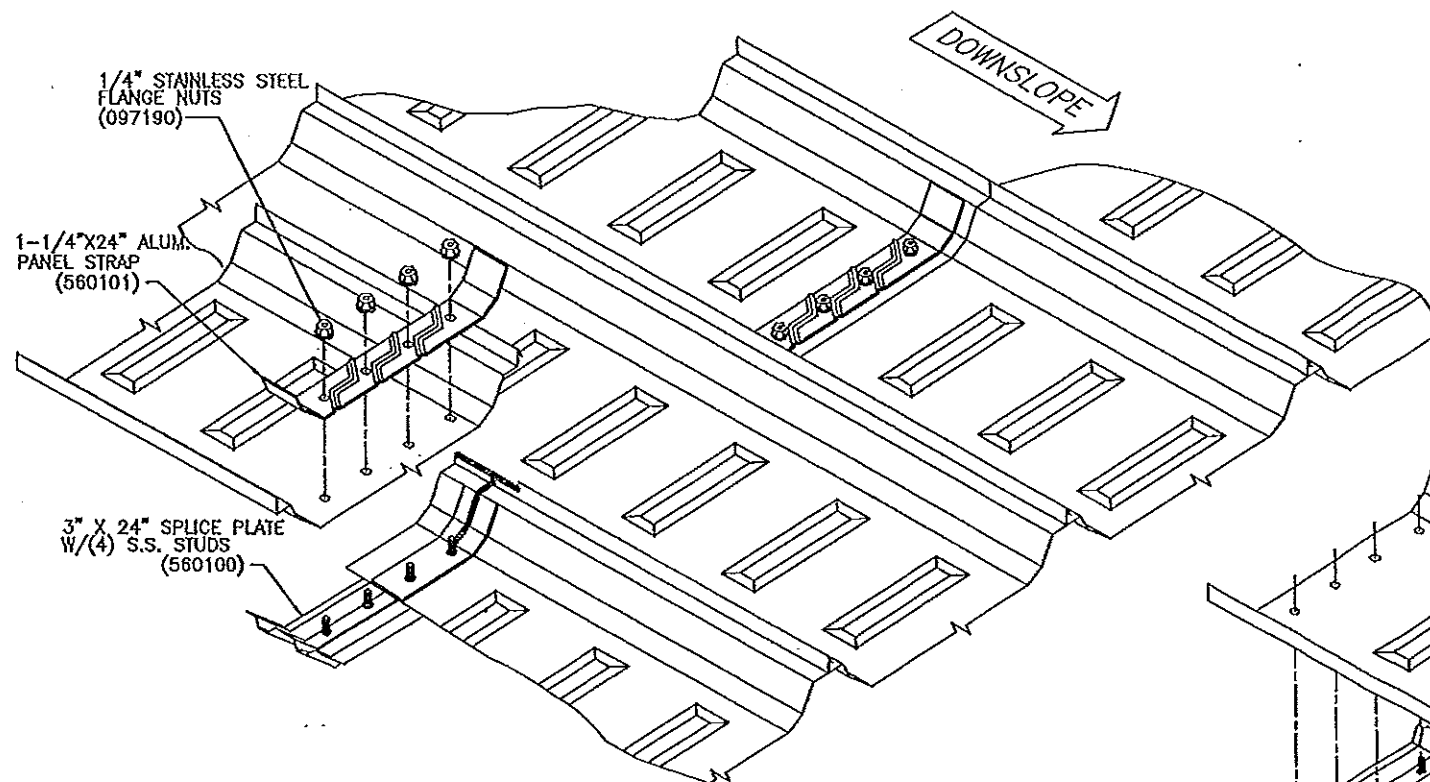
SEAMING OPERATION

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 14-0520.16 Expiration Date 12/09/2014 By *[Signature]* Miami Dade Product Control

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 14-0922.03 Expiration Date 12/09/2019 By *[Signature]* Miami Dade Product Control

[Signature]
Russell L Benton, PE#51155

BUTLER Butler Manufacturing a division of BlueScope Building North America, Inc. 1540 GENESSEE ST. KANSAS CITY, MO. 64102		MR-24 PANEL INSTALLATION DADE COUNTY FLORIDA	
DESIGN BY JRS	CHECKED BY MJH	GROUP NUMBER: 02--030--08	
FIRST RELEASE DATE 01/21/10	REVISION DATE 03/11/14	B	P-081387 02

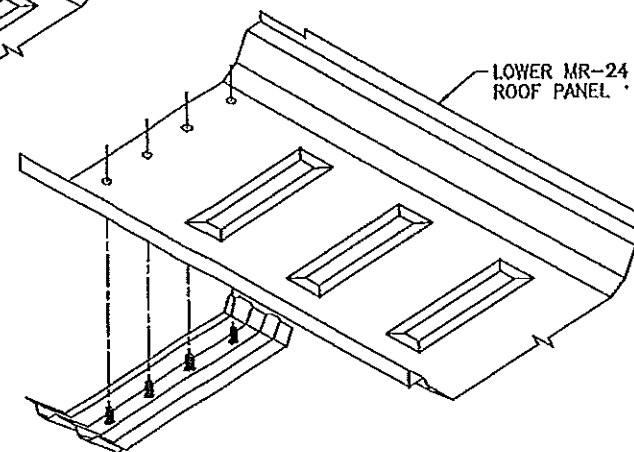


PANEL END LAP SPICE

- PUNCHED AND NOTCHED PANELS ARE FURNISHED WITH LENGTHS CALCULATED FOR END LAP SPICES TO OCCUR OVER SECONDARY STRUCTURALS.
- REFER TO ROOF PANEL LAYOUT DRAWINGS PROVIDED WITH EACH ORDER FOR PROPER PLACEMENT OF STAGGERED END LAP SPICE LOCATIONS.

IMPORTANT:

COMPLETELY ASSEMBLE SPICE BEFORE SEAMING ADJACENT PANELS.

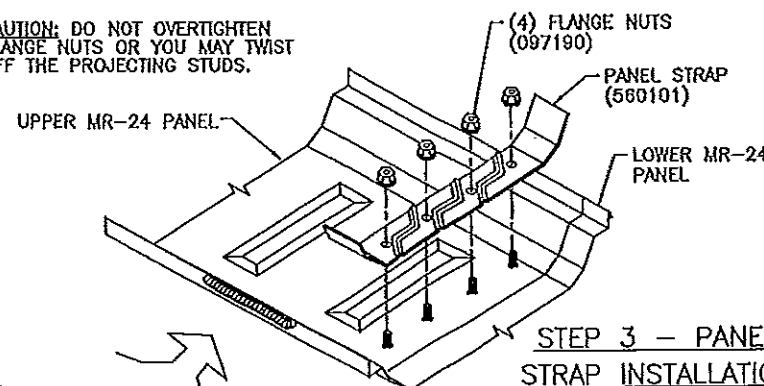


LOWER MR-24 ROOF PANEL

STEP 1 - SPICE PLATE INSTALLATION

- ATTACH PANEL AT EAVE TO STRUCTURAL MEMBER.
- FOR EASE OF INSTALLATION, SPICE PLATE (560100) CAN BE TEMPORARILY ATTACHED TO PANEL WITH (2) FLANGE NUTS BEFORE POSITIONING PANEL.

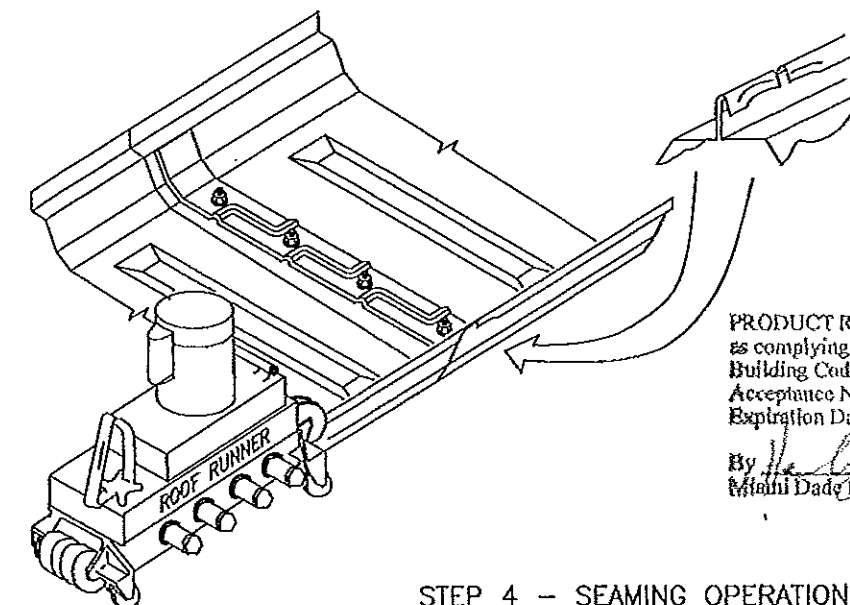
CAUTION: DO NOT OVERTIGHTEN FLANGE NUTS OR YOU MAY TWIST OFF THE PROJECTING STUDS.



STEP 3 - PANEL STRAP INSTALLATION

- POSITION UPPER PANEL INTO NOTCHED AREA ON LOWER PANEL WHILE ENGAGING STUDS IN PREPUNCHED HOLES.
- HAND HELD WRENCH IS RECOMMENDED TO TIGHTEN FLANGE NUTS (DO NOT USE POWER TOOLS.)
- IF STUDS BREAK, INSTALL A NEW SPICE PLATE.
- APPLY GUN GRADE PANLASTIC TO BACK SIDE OF SEAM BEFORE SUCCEEDING PANELS ARE INSTALLED.

3/8" DIA BEAD OF GUN GRADE PANLASTIC (025392)



STEP 2 - SEALANT APPLICATION

1/8" X 1" TAPE PANLASTIC STRIP BUTYL SEALANT WITH 0.040" NYLON CUBES EMBEDDED (042717) DIRECTLY OVER STUDS AND UP SIDES OF CORRUGATION TO HORIZONTAL SURFACE. DO NOT LAP TAPE OVER TOP OF CORRUGATION. WORK SEALANT INTO CORNERS AND AROUND STUDS. THEN REMOVE PAPER BACKING.

LOWER MR-24 PANEL

STEP 4 - SEAMING OPERATION

- INSPECT EACH END LAP SPICE FOR PROPER FIT AND WEATHER TIGHTNESS.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0922-03
Expiration Date 12/09/2019
By *Heidi A. Miller*
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-0520-16
Expiration Date 12/09/2014
By *Heidi A. Miller*
Miami Dade Product Control

Russell L Benton
6/10/14
Russell L Benton, PE#51155

SHEET 6 OF 6

BUTLER Butler Manufacturing a Division of BlueScope Building North America, Inc. 1540 GENESSEE ST. KANSAS CITY, MO. 64102		MR-24 END LAP SPICE DADE COUNTY FLORIDA	
		DRAWN BY JRS FIRST RELEASE DATE 01/21/10	CHECKED BY MJH REVISION DATE 07/01/10

REVISION NUMBER 1

DATE
07/01/10
DWBY: CHKD
BSN RLB

REVISE TO SHOWN TITLE BLOCK AND
NUMBER TO 0081388.
ADD BUTLER LOGO.